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10. ABSTRACT (Courthous on reverse adds N necessary and identify by block number)	1
Meteorological data gathered for the launching of the 12828F 5336 presented in tabular form.	Lance, Missile No.
5550 presented in capatal form.	}
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### INTRODUCTION

-12828F Lance	, Missile	Number 53	336		_, Roui	nd Numbe	r 368-MSL ,
was launched from_	LC-33	_, White	Sands	Missile	Range	(WSMR),	New Mexico,
at <u>0900 MDT</u> 0	n 02 Oct 81		Ti	he schedi	uled la	aunch ti	me was
0900 MDT							

### DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team. Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

## 1. Observations

- a. Surface
- (1) Standard surface observations to include pressure, temperature  $(^{O}C)$ , relative humidity, dew point  $(^{O}C)$ , density  $(gm/m^{3})$ , Wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
  - b. Upper Air
- (1) Low level wind data were obtained from Nike Hercules radar tracked pilot balloon observation at:

### SITE AND ALTITUDE

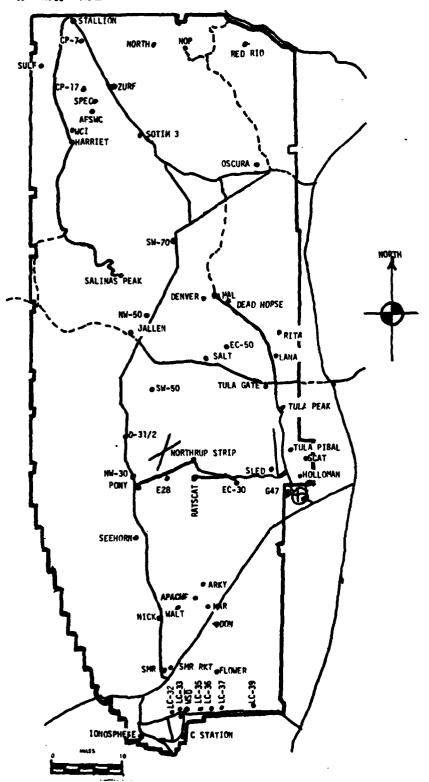
## LC-33 11,800 feet

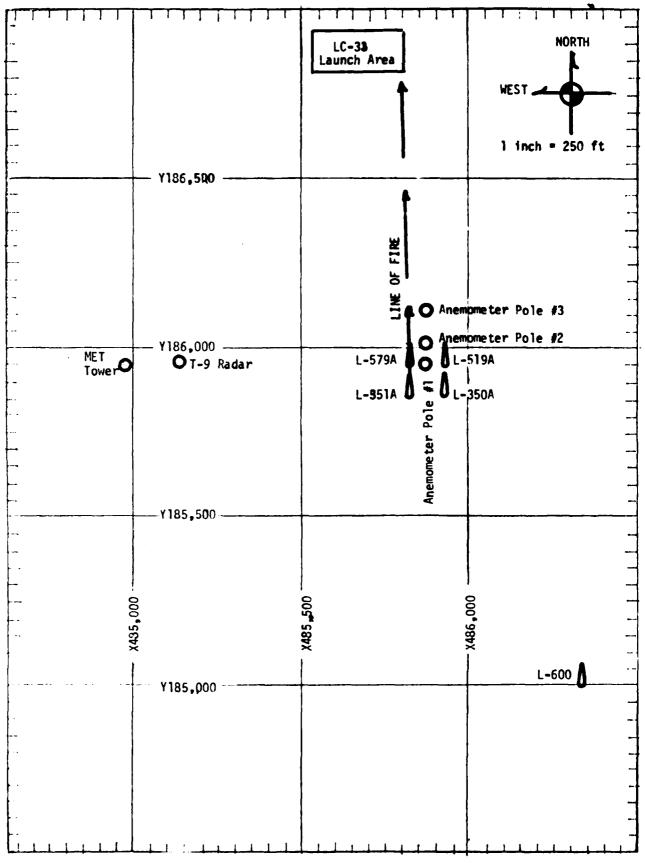
(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible in 500-feet increments.

### SITE AND TIME

WSD 1000 MDT APA 0815 MDT JAL 0850 MDT

# WSMR METEOROLOGICAL SITES





PPOJECT SURFACE OBSERVATION

DATE         DATE         DATE         DATE         DEM POINT         PELATIVE         PELATIVE         PRESSURE         TEMPERATURE         DEM POINT         PRESTION         SPEED         CHARACTER         VISIBIL           M.D. I.         mbs         oF         oC         %         gm/m³         degs Tn         kts         lTY           0900         882.9         18.2         15.3         83         1055         295         01         15	TABLE 1								STATION LC-33 E&A	33 E&A		
PRESSURE TEMPERATURE DEW POINT HUMIDITY DENSITY DIRECTION SPEED CHARACTER gm/m³ degs Tn kts kts  882.9 18.2 15.3 83 1055 295 01	DATE DAY	F	VENT VENT	1				^	484,932,64	Y=18!	5 957 73 H	3983.0
882.9 18.2 15.3 83 1055 295 01	11 PE 11 D. I.	PRESSURE mbs	TEIMPEF OF	ATURE OC	OEW P(		PELATIVE HUMIDITY %	DENSIIY gm/m3	DIRECTION   degs In	WIND SPEED kts	ARACTER kts	VISIBIL-
	0060	882.9		18.2		15.3	. 83	1055	295	01		15

	REMARKS																		
		HGT																	
	1 LAYEE	AMT TYPE HGT	·																
	1 3rc	AMT																	
	2	HGT	12000																
CI OUDS	d LAYEF	IN LAYE	d LAYE	d LAYE	d LAYE	d LAYE	d LAYE	d LAYE	2nd LAYE	2nd LAYE	2nd LAYE	2nd LAYER	and LAYER	nd LAYER	nd LAYER	IN LAYER	TYPE	AC 12000	
	20	AMT	9																
	R	HGT	4000																
	t LAYE	TYPE	SC																
	Js	AMT   TYPE   HC	¥																
	08STRUCTIONS	TO VISIBILITY																	

ITION						
IC COMPUTA	0060	18.2	16.3	1.9	15.3	83%
PSYCHROPETRIC COMPUTATION	TON : NOT	DRY BULB TEMP.	WET BULB TEMP.	WET BULB DEPR.	DEW POINT	RELATIVE HUMID.

POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	4.29 8.90 4				POLE #2 X485,874 Y186,012 H4033.57 53.0 ft	1.93 2.00				POLE # X485,87 Y186,11 H4063.9 83.6 ft	7.29 6.06 2			
T-TIME SEC	DIR DEG		SP KT	EED S	T-TIME SEC	DI R DE G		SP	EED S	T-TIME SEC	DIR DEG		SPEI KTS	
T-30	С	Α	L	М	<b>T-</b> 30	С	Α	L	M	T-30	С	Α.	L	М
<b>Τ-20</b>	С	_A_	L	M	<b>T-</b> 20	С	_ <u>A</u> _	L	M	T-20	C	A	L	M
T-10	<u> </u>	<u> </u>	L	M	T-10	c	A	L	M	T-10	С	A	L	M
т0.0	c	_A_	<u> </u> _	М	T0.0	С	_A	L	M	<b>T</b> 0.0	С	Α_	L	M
T+10	C	Α	L	M	<b>T</b> +10	С	<u> </u>	L	М	T+10	С	Α_	L	M

TABLE 3	LC-33 METEOROLOGICAL	TOWER ANEMOMETER	MEASURED WINDS	(202 FT	TOWER)
---------	----------------------	------------------	----------------	---------	--------

LEVEL #1, 12 X484,982.64,		57.73	, H3983.00 (base)	LEVEL #2, 62 X484.982.64,		)57.7	73,	H3983.00 (base)
T-TIME SEC	DIR DEG		SPEED KTS	T-TIME SEC	DIR DE	G		SPEED KTS
T-30	С	Α	L M	<b>T-3</b> 0	С	Α	L	М
T-20	С	Α	ų M	<b>T-</b> 20	С	Α	L	М
T-10	С	Α	L M	<b>T-1</b> 0	С	A	L	М
то.о	С	A	ц м	<b>T</b> 0.0	С	A	L	M
T+10	С	Α	L M	<b>T+</b> 10	С	Α	L	М

LEVEL #3, 10 X484,982.64,	2 FEET Y185,057.73	, H3983.00 (base)	LEVEL #4, 20 X484,982, Y1		3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	C A	L M	T- 30	153	02
T-20	C A	ц м	T-20	153	02
<b>T-</b> 10	C A	L M	T-10	153	02
10.0	C A	L M	<b>T</b> 0.0	153	02
<b>T</b> +10	CA	1 M _	T+10	153	02

TABLE	4											
RELEASE	D FRO	OM	LC-33			DATE_	2 Oct 81			_TIME	0909 MDT	
		(	COORDINAT	res	(WSTM)	X=_	486,872.0	0	Y= 184,146.75	H=_	3981.15	
NOTE:	WIND	DIR	ECTIONS A	<b>ARE</b>	REFEREN	ICED T	ro					

	ARE METERS			_	
HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS		HEIGHT AGL	DIRECTION
sfc	160	03		5600	196
200	154	03		5800	196
400	148	03		6000	195
600	142	03		6200	193
800	137	04		6400	192
1000	131	04		6600	192
1200	145	06		6800	193
1400	158	07		7000	194
1600	170	07		7200	195
1800	183	08		7400	194
2000	188	08		7600	193
2200	180	08		7800	193
2400	175	09		8000	193
2600	168	10		8200	193
2800	168	12		8400	193
3000	167	14		8600	195
3200	167	15		8800	196
3400	170	16	,	9000	198
3600	174	16		9200	198
3800	178	16		9400	197
4000	180	16		9600	196
4200	184	16		9800	195
4400	187	15		10000	194
4600	189	15		10200	193
4800	191	16		10400	191
5000	192	16		10600	191
5200	193	17		10800	190
5400	194	17		11000	190

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
5600	196	17
5800	196	17
6000	195	16
6200	193	16
6400	192	16
6600	192	16
6800	193	17
7000	194	18
7200	195	18
7400	194	19
7600	193	20
7800	193	20
8000	193	21
8200	193	21
8400	193	21
8600	195	21
8800	196	21
9000	198	21
9200	198	21
9400	197	23
9600	196	24
9800	195	25
10000	194	25
10200	193	24
10400	191	24
10600	191	24
10800	190	23
11000	190	23
	1	7

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
11200	189	23
11400	187	24
11600	186	25
11800	184	27
	•	
<del> </del>		
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	<u> </u>	
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# Launch, Mid-Range, and Impact Area Computer Met Messages

WSD 1000 MDT	APA 0815 MDT	JAL 0850 MDT
METC M 324064	METCM1326064	METCM1332065
021600122882	021430120883	021490124880
00284003 29500882	00320002 29270883	00000000 29260880
01298008 29320872	01298011 29210872	01356002 29190869
023 02 006 29 06 08 47	02286014 29050847	02314007 29030844
03309015 28830808	03305014 28840808	03297015 28790805
04347015 28620761	04332015 28620762	04355013 28560759
05351019 28340717	05362017 2 <b>8</b> 390717	05343016 28310715
06361017 28000675	06342016 28030675	06340018 28040673
07361022 27700635	07333019 27720635	07336022 27680633
08371024 27400597	08329025 27460597	08338026 27370595
09390025 27100560	09333025 27330561	09338022 27050559
10358021 268205 <b>26</b>	10343027 27070527	10325024 26820525
11360022 26490494	11329023 26500495	11329029 26470492
12365028 26030448	12318022 26070449	12314027 26040446
13383027 25410392	13386028 25230393	13383029 25330391
14384030 24620342	14394031 24560343	14385033 24570341
15414037 23880298	15402033 23840298	15392039 23830296
16416052 23110257	16418052 23120258	16413050 23100256
17413057 22330222	17412054 22350222	17411052 22380221
18424068 21570190	18425064 21620190	18412061 21600189
19423072 20850162	19427074 20890162	19420069 20900161
20440058 20450137	20443054 20660138	20425052 20640137
21416040 20260116	21398033 20410117	21394035 20470116
22402023 20240098	22411030 20190099	22403025 20370098
23371015 20450083	23349009 20460083	23373012 20680083
24288008 20880071	24340012 20780071	24346013 20920071
25359006 21010060	25140007 21110060	25080010 21190060
26595001 21290051	26248001 21440051	26394012 21440051

GEODETIC COORDINATES 32.40043 LAT UEG 106.37033 LON UEG			
DAFA	REL.HUM. PERCENT	20000000000000000000000000000000000000	
r LFVEL 120628 SANDS	TEMPERATURE IR DEWPOINT REES CENTIGRADE	661488844011 54488844011 567888469 66148888469 661488869 661488869 66148886 66148886 66148886 661488 6614886 661488 661488 6614886 661488 661488 661488 661488 661488 661488 661488 661488 661488 6614	
SIGNIFICAN 27500 WHITE TABLE 6	TEMPE AIR Degrees		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
45L	E GEOMETRIC ALTITUDE S MSL FEET	45555.1 6555.1 10382.1 10382.1 114985.3 221385.0 221385.0 44555.1 44555.0 44555.0 44555.0 44555.0 64555.0 64555.0 64555.0 64555.0	58515.6 61534.3 64192.0 68392.2 71688.9 74936.7 74936.7 79184.7 82912.4 87900.4
STATION ALTITUDE 3989.00 FEET MSL 2 Oct. 11 100 1115 NDT ASCENSION NO. 1028	PRESSURE. MILLIBARS		731.4 73.0 73.0 74.0 74.0 74.0 73.0

STAFION ALITIUDE 3989-NO FEET ASL 2 OCT. HI 10 10 14KS MDT ASCENSION NO. 628

TABLE 6 CONTY

SIGNIFICANT LEVEL DATA 27500>0626 WHITE SANDS

"EODETIC COONDINATES 32,40043 LAT DEG 106.37033 LON DEG

TEMPERATURE AIR DEWPOINI DEGREES CENTIGRADE

REL.HUM. PERCENT

-41.0 -39.5 PRESSURE GEOMETHIC ALTITUDE MILLIBARS MSL FEET 7.0 111195.1 6.6 112526.9

			•		UPPER AIN DAT	O <sub>M</sub> TA			
2 A 1 10% AL	11706	3989-00 FELT 55L 1030 1445 MDT	. 1 :: SL #0.1		2750020626 WHITE SANDS	26 05		6E00ETIC	ETIC COORDINATES
~	NO. 028	•	•	•		}		106	
GE METHIC	PRESSURE	TEMP	TEMPERATURE	REL.HUM.	DENSITY !	SPEED OF	WIND DATA	٩	INJEX
ALITIUDE MSL FEET	MILLIBARS	AIH DEGREES	DEWPOINT CE.4TISAADE	PERCENT	GM/CUBIC METER	SOUND NOTS	DIRECTION DEGREES(IN)	SPEED KNOTS	OF REFRACTION
3989.0	881.9	19.8	15.0	74.0	1041	4694	0.091	6,0	905000-1
	9.1.6	19.7	•	74.1	0.0401	9	2.091		
9		17.3	13.9	80.3	1031.7	_	165.7	2.5	1.000301
990	850.8	15.9	12.8	61.9	1018.8	_	167.9	7.3	1.000294
•	_	15.0	12.7	85.8	1003.6	663.5	•	9.5	•
•	820.8	14.2	12.5	89.8	988.5	662.6	170.8	÷	.00028
•	_	10.0	12.4	93.8	5	661.6	1/5.5	;	1.000283
7500.0	P. 777	12.	11.6	0.00	958.5	6.099	1.9.0	15.9	
		7.51	100	41.00 A.00	94046	1.000	100.0	001	1.0002/1
ė	_	10.9	ን ው	69.7	914.1	658.6	196.7	Š	1.000259
•	736.3	10.3	8.5	88.6	899.7	657.8	198.8	16.1	1.000253
9500	-	<b>7.6</b>	7.7	89.5	886.6	656.6	199.1	16.8	•
0000		<b>0.</b> 0	6•9	95.6	874.8	655.0	198.4	17.5	1.000243
0200		<b>6.</b> 9	6•9	6.46	862.8	653.5	197.4	18.3	•
•	6900	0	N :	e • • • • • • • • • • • • • • • • • • •	# · 6 # 0	652.5	197.0	Ġ,	•
7000	9,859	1 1	n = r	7.40	636.2	651.4	178 C	19.6	1.000227
	646.4	) ¥			910.E	******	2000	20.02	•
3000	634.3		7.0	93.0	797.9	648.3	204.3	21.5	1.00021
3500.		1.8	•	95.6	785.5	647.3	206.2	22.4	•
		1.0	-:	92.2	773.4	646.3	208.1	23.1	1.000203
4500	599.5	<b>?</b>	-1.0	91.8	761.4		508.9	23.6	1.000198
56000		<b></b>	6.1.	91.4	749.6		212.0	23.4	1.000194
16000-0			9.2	0.16	726.5	643.2	217.6	23.0	
65,00	556.0	7.5	1 a	90.5	715.3	541.1	219.1	0.10	1.000182
7000		0.4-	-5.5	89.1	704.0	1.009	215.7	21.9	•
17500.0	535.1	-4.7	-6.6	87.0	692.7	639.1	211.5	22.2	1.000174
8000			-7.7	84.8	681.6	638.1	205.0	23.1	1.000170
0.00001		9.0	<b>1</b> 00	2.67	6.0/9	630.0	200.4	24.2	1.000165
9600		7 - 6	711.5	0.00	5000	6.220	200.00	1.62	
0000		9.6	-13.6	72.4	2000		203.2	26.3	1.00015
:	470.0	-11.2	-14.4	76.7	32.	631.1	204.9	26.6	1.000152
000		-12.8	-15.4	81.0	23.	029.1	204.8	26.5	1.000149
200	57.	-11.9	•	24.9	0	630.0	504.9	ġ	1.000143
	9	-12.4	-27.1	28.2	599.0	629.2	205.2	26.8	3
	• 4	712.5	•	20.0	\$ C	628.2	202 204 1	ċ	00013
	>	_	1.26-	20.0	•	•	•	6/2	1.0001.51

STATION ALITUDE 2 OCT. 81 ASCENSION NO. 6	~	3y89.n0 FEET 10n HRS MD 8	ET NSL MD T	·	2750020624 WHITE SANDS TABLE 7 CON'	20624 SANDS CON'T		,,EODET <sub>T</sub> 32. 106.	"EODETIC COOKUINATES 32,40043 LAT DEG 106,37033 LON DEG
GEOM: TRIC	PRESSURE	TEM	TEMPERATURE	REL. HUM.	DENSIT	SUEFID OF	AIND DA	DATA	INDEX
ALTITUDE MSL FEET	MILLIBARS	A I DEGR	DEWPOINT	PERCENT	6M/CUBIC METER	SOUND	DIRECTIO.	SPEED	OF REFRACTION
0.0035	#			9		4.05	207.4	2. 1.	6: 1000
•	J :	1.01	7.25	0.02	1.0.0			•	•
•		701	-33.B	20.0	201.0		208.3	27.0	.00012
•		-17.3	-34.8	20.0	552.1		209.3	26.3	1.000125
-		-18.4	-35.6	20.5	543.4	651.9	213.3	26.7	1.000123
•		-19.6	-36.4	20.8	534.9		217.3	27.2	1.000121
		-20.9	-37.2	21.4	52n.5	_	218.4	28.3	
•		-22-1	-38.0	22.0	518.2	_	218.8	29.6	
•		-23.4	-38.8	22.6	510.2	615	218.0	29.9	1.000115
•		9-42-	-39.6	23.2	502.2	Ī	216.9	29.9	11000.
		-25.9	5.04-	23.8	3.565		210.0	29.8	.00011
28500.0		-27.1	-41.3	24.4	486.7	_	215.3	29.7	
29000-0		1-96-	-42.1	25.1	479.1		215.0	30.1	
29500.0		-29.5	-42.8	26.0	471.0		214.9	30.6	1.000106
30000.0		-30.5	オ・パオー	26.9	463.1	_	218.0	31.8	1.000104
30500.0		-31.6	0.55-	27.8	455.3	-	221.9	33.4	1.000102
31000.0		-32.7	-44.7	28.7	447.7		226.2	34.1	1.000100
31500.0		-33.8	145.4	29.6	440.0		230.6	34.6	1.000099
32000.0		6-46-	-46.2	30.2	432.7		234.0	36.9	1.000097
32500.0		-36.1	-47.1	30.6	425.4		236.7	39.8	1.000095
35000.0	283.2	-37.3	-48.1	31.0	418.2	-	237.8	40.0	.0000
•		-38.4	0.64-	31.4	411.2		238.4	47.2	1.000092
34000.0		-39.6	-50.0	31.7	404		237.7	49.1	1.000090
34500.0	265.	1.05-	6-15-	9	397.4		236.4	50.1	1.000089
35000.0		-41.8	-56.7	17.7**	390.3	_	234.7	50.8	1.000087
35500.0		-42.8	•	6.8*	383.5	-	232.8	51.3	1.000085
36000.0		0.41-			376.7		251.7	51.9	1.00008
36500.0		-45.2			370.0	•	231.7	52.7	1.000082
37000·n		140.4			363.5		231.9	53.6	
37500.0		9-11-			357.1	585.0	232.5	54.8	1.000080
38000+0		-48.9			350.9		232.9	56.0	1.000078
385A0•0		1.05-			ト・ササの		232.7	57.2	1.00007
39000•0		-51.3			338.7		232.5	58.3	
ġ		-52.5			332.8		233.5	•	1.000074
ė		-53.8			327.0		234.4	61.3	.0000
ė		-55.0			321.3		255.5	63.0	
ė		0.96-			315.2		236.7	64.8	.00007
ė		-57.1			303.1		237.5	67.4	1.000069
ė	187	-58.1			505.2		238.0	70.6	•
2500•	-	-29.1			6		234.5	73.0	1.000066
# 2000·0		-60.1			291.6	564.7	228.9	13.4	1.000065
	,						1		

STATION ALTITUDE 2 OCT: 41 ASCENSION NO: D	100E • 02	3y89∙n0 FEET ¦SL 1On HRS M DT 8	<b>-</b>	UPPER AIN ULT 27500-2062H WHITE SANDS TABLE 7 CON'T	20. TA		GEODETIC 32.40 106.37	DETIC CORUINATES 32.40043 LAT DEG 106.37033 LON DEG
GEOMETRIC	PRESSURE	Ž			SPEFU OF	WIND DATA	TA	INDEX
ALTITUDE MSL FEET	MILLIBARS	AIR DEWPOINT DEGRES CENTIGRADE	PERCENT	GM/CUBIC METER	SOUND KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	OF REFRACTION
43500•ņ	174.1	-61.1		286.n	567.3	239.3	73.8	1.000064
0.00044	5	-62.1		280.6	-	240.0	73.8	1.000062
4500.	3;	4.09-		275.3		240.7	73.8	1.000061
45500.0	161.7	164.0		2/0.1	562.6	241.0	73.5	1.000060
46000.0	53.5	-67.1		260.1		242.3	72.3	1.000058
	2	4.89-		255.3		242.8	68.5	1.000057
7000	3	-67.8		248.2		243.3	64.1	1.000055
•	3	-67.6		241.6		243.6	60.3	1.000054
•	139.1	-66.5		236.8		2.442	58.2	1.000053
•	135.0	5 G		231.9		244·6	56.1	1.000052
0.00064	132.6	**************************************		226.1		0 · + 4 · · · · · · · · · · · · · · · · ·	24.5	1.000050
, ,	125.7	0.004 0.004		214.7	5,000	24.5.0	7 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.000049
_	122.5	-69-a		500		241.6	4	1.000047
_	119.5	1-69-		204.5		239.3	41.0	1.000045
•	110.5	-69.5		199.2		235.9	37.7	1.000044
•	113.5	9-02-		195.2		231.5	B. 00.	1.000043
0.00054	100.0	#\\\- -71.4		191.1	553.4	226.3	33.2	1.000043
	105.1	-71-3		181.4		258.2	31.0	1.000040
-	102.5	-71.2		175.8		228.8	29.4	1.000039
	6.56	-71.2		172.3	_	247.9	26.2	1.000038
	9.26	6.07-		167.7		226.8	23.1	1.000037
56,000-0	00 P	9.07.		163.3	10 10 10 10 10 10 10 10 10 10 10 10 10 1	222.0	50.0 50.0	1.000036
	90.2	1,00,1		156.8	_	207.2	17.6	45,000,000
57009.0	6.79	8.69-		150.7	-	207.6	16.7	1.000034
	85.7	-69-6		146.7	-	200.5	15.7	1.000033
•	80.6	-69-3		142.8		209.4	15.4	1.000032
58500.0	81.5	0.69-		139.0		506.6	16.0	1.000031
59000.0	75.5	168•1		135.0		210.3	16.6	1.000030
	75.6	20191		1.101		2002	1 to 1	1.00000
	73.7			127.5	5600	1.59.4	מיטן	1.000028
	71.9	10 e		120.0		171.9		1.00000
_	70.1	-63.6		116.5		146.4	7.3	1.000026
-	68.4	-63.5		113.7	-	137.3	•	1.000025
9	1.99	-63.5		110.9		147.3	7.7	1.000025
65000·J	1.09	-63.6		106.2	564・1	9.951	8.0	1.000024

1,EODET (C. COOKDINATES 32,40043 LAT DEG 106,37033 LON DEG	INDEX OF REFRACTION	1.000024	•	- ٦	20000-1	1.00002	-	0 1.000020	-	1.000019	1.00001	1.000018	~	_	1.00001	→ ,	1.00001	1.00001	1.00001	┥.	10000-1		-	•	-	-	-	1.00001	1.00001	1.00001	1.00001	100001	10000-1	0100001	T0000 T	~ .	⊸ .		1.00000	1.000009
, EODE 35	TA SPEED KNOTS	7.2	7	. 6	6	5.0	5.4	5.0	4.6	3.2	1.6	•	1.6	3.5	4.2		<b>5</b>		5	e u	֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		0	12.3	14.9	13.1	10.0	9.9	9.0	•	0.0	<b>2</b>		ָה ה ה		N 4	•	•		ò
	WIND DATA DIRECTION S GEGREES(IN) K	106.9	4.08.	196.9	213.5	231.4	241.2	242.6	544.4	244.7	2000	225.1	1.54	1.5°	*·/*	55.2	000	75.1	20.70		7.1.1.2	2000	171.2	181.0	187.0	1.69.1	189.6	190.6	10/00	152.	23.0	C.T.C	40.64	619	70.	2.0	) a	0000	100	9.04
JATA 28 35	SPEED OF SOUND KNOTS	564.0	544	564.3	564.0	565.5	560.0	566.6	567.2	567.8	568.3	<b>269∙</b> 0	569.8	570.7	571.5	572.4	573.2	573.7	574.1	0.476	575.3	576.2	577.2	578-1	578.2	578.3	578.4	578.5	578.7	578.8	578.9	0.670	3.610	7,10,4		578.7	0.070	U. 5/0	9.870	578.4
UPPER AIR DATA 2750020628 WHITE SAIDS TABLE 7 CON'T	DENSITY S GM/CUBIC METER	105.6		1001	97.A	95.2	92.8	90.3	88.0	85.7	93.4	81.2	O I	17.0	0.5/	72.9	0.1,	69.5	6.5	9 0	20.09	9	5 6	57.7	56.4	55.1	53.8	52.5	51.3	0.00	O (	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	£ .			10 (P)		•	90	29.1
,	EL HUM.																																							
3989.00 FEET "SL 1000 HRS MDT	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-63.6	-6306	-63.3	-62.9	-62.5	-62.1	-61.6	-61.2	9-09-	-60.3	-59.9	22.6	150.6	D-101	15/10	/ • 961	150.3	0.00 m	100 K	-55-1	1001	-53.6	-53.0	-52.9	-52.0 -	-52.7	-52.6	104.0	- 1.2V - 4	136.3	-3-5-C	2000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		156.3	- UN - U	1001	- 200	25.4
TUDE . 62	PRESSURE MILLIBARS D	65.5	•	60.5	59.0	2/•6	56.2	54.8	53.5	25.2	51.0	, on the	0 5 9 r	* * · · · · · · · · · · · · · · · · · ·	7 C	7 · C ·	1 - 1	40.5	146.1	40.1	39.2	36.3	37.4	30.5	35.6	80 · + 10	D•+0	22.5	26.5		) F	9.00	24.9	24.2	27.6	200	200	25.7	25.7	
STATION ALTITUDE 2 UCT. 81 ASCENSION NO. 6	GEUMETRIC ALTITUDE MSL FEET N	63500.0	64000.0				0.00099				•	68500.0	0.00060	200000	0.0007	7,000-0	71500.0	72000-0	72500.0	73000.0	73500.0	74000•0	74500.0	75000.0	75500.0	76000.0	7.0500.0	U-000//	0.00017	0.0000	0.0000	795.00		00000			0.000 CR		3	

GEOMFTRIC PRESSUR ALTITUDE MSI FEST MILITAR				TABLE 7 CON'T	-			ומסילונים ביטון מכני
	SURE	TEMPERATURE AIR DEWPOINT DEGREFS CENTIGRADE	REL.HIM. IT PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND	WIND DIRECTIO DEGREES(I,	DATA SPEED KNOTS	INDEX OF REFRACTION
	ш			( #	•	4 40		
	24.5	-52.3		7.80		****	0	1.000000
	0	-51.8		57.7		101.0	0.9	1.000008
•0	23.4	-51.3		36.8	580.2	95.0	S.0	1.100008
	2.9	-50.9		35.9	580 • 8	78.7	t.,	1.000008
	2.4	-50.4		35.0	_	<b>†•99</b>	3.5	1.000008
, ,	1.8	-50.0		34.1		61.7	2.9	1.000008
	21.3	100 s		33.2		54.8	2.3	1.000007
	6	C.04-		30.4		O• ##	8-1	1.000007
2 5		V . C . I		31.6		61.5		1.00000
	0	2000				78.8	-	1.000001
<b>.</b>	10	1 to 0 to 1			-	93.2		200001
				1		4.01.		
	<b>.</b>	0.00		# · 6 · 0		110.0	?!	
_	٥	0.81		28.8		104.0	1.7	1.000000
	16.2	6-/1-		28.1		107.9	1.9	1.000006
	<b>7.8</b>	-47.8		27.5		162.6	8.5	1.000006
	7:4	-47.7		26.8		179.1	3.5	1.000006
_	17.0	-47.6		26.2	585.0	177.2	e.5	1.000006
-	9.9	-47.6		25.6	585-1	175.9	5.5	1.000006
7 0.	6.2	-47.5		25.0		168.9	4.8	1.000006
_	5.8	-47.4		54.4	585.3	156.5	6.5	1.000005
_	5.5	-47.3		23.9		138.2	3.3	1.000005
_	5.1	D. 74-		23.3		116.2	3.1	1.000005
	4.8	-47.2		22.8		111.2	2.8	1.000005
	14.5	-47-1		22.3	585.7	104.9	2.5	1.000005
•-4	7	-47.0		21.8	585.8	97.2	2.3	1.000005
	6.5	-47.0		21.3		97.0	2.3	1.000005
	7.5	8.94-		20.8		1.6/	4.7	1.000005
	13.2	4.94-		20.3	586.6	76.5	7.0	1.000005
	6.7	-46-1		19.6	_	75.5	<b>9.</b> 6	1.0000004
_	14.6	-45.7	•	19.3	587.6	75.1	11.7	_
	£.3	-45.3	•	16.9		80.5	13.9	1.000004
	12.1	-45.0		18.4		64.3	16.1	-
	1.8	9-44-		18.0	589.0	87.3	18.4	1.000004
	11.5	7.51		17.6		90.1	20.4	1.000004
	1.3	6.5.4		17.1	589.9	98.5	19.5	1.000004
101000.0	11.0	-43.5		16.7		107.6	19.0	1.000004
	9.0	10301		16.3		116.9	19.0	1.000004
	5	142.8		15.9		125.2	19.5	1.00004
	6.3	500		15.6	_	125.3	20.2	1.000003
0.0000				15.0		125.3	20.9	E00000-1

GEODETIC COUNDINATES 32.40043 LAT DEG 106.37033 LON DEG	INUEX OF REFRACTION 1.000003	1.0000003 1.0000003 1.0000003 1.0000003 1.0000003 1.0000003 1.0000003 1.0000003 1.0000003 1.0000003 1.0000003
6Ε00ΕΤ <sub>1</sub> 32. 106•	بالبر ڪ	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	WIND DATA DIRECTIO, S ()EGREES(T()) K 125.3	00000000000000000000000000000000000000
24 Ze	SPEED OF SOUND ANOTS	5946 5946
UPPER AIN DATA 2750020626 WHITE SANDS	() (0.0)	
	REL.HIM. DENSITY PERCENT GM/CUBIC METER 14.	
ET .4SL ₩ DjT	TEMPERATURE R DEWPOINT EES CENTIGRADE •9	
3989-60 FEET <sub>-1</sub> SL ใช้ต +เพร # มิกั เช	TEMP AIR DEGREES -41.9	
CA CA	PRESSURE MILLIBARS 9.9 9.6	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
STATION ALTITUDE 2 OCT. 81 ASCENSION NO. 60	GEUME TRICALITYDE MSL FEET 103500.0	10450000 105500000 10550000 10750000 10750000 10750000 107500000 10750000 111500000 111500000

GEODFTIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG	)A   A		KNOTS	7.4	15.5	15.5	18.1	20.5	23.6	21.9	25.5	26.8	26.5	29.8	35.1	51.6	63.4	73.7	68•6	49.2	26.5	16.4	7.3	5.7	in,	5.6	6.4	6.7	1.8	3.0	21.0	
	WIND DAIN	DIRECTION	DEGREES (TN)	168.0	177.0	196.7	197.6	201.0	209.9	217.2	500.6	205-1	212.0	215.9	232.0	231.7	235-8	239.2	242.7	243•3	228.0	210.2	146.2	200∙8	241.0	119.2	35.0	99•1	74.0	114.9	125.3	
EVELS 28 35	REL.HIM.	<b>PERCENT</b>		82.	• 46	-06	95•	93.	92.	•06	71.	33.	20•	24.	30.																	
MANDATORY LEVELS 2750020628 WHITE SANDS TABLE 8	TEMPERATURE	DEWPO1 W	CENTIGRADE	12.7	12.1	9•3	6•3	2.8	-1.0	-5.0	-12.1	-25.4	-35.4	9.04-	-45.6																	
I F	TEMP	AIR	Ŋ.	15.8	13.1	10.9	7.0	3.7	?	-3.6	-7.8	-12.4	-18.0	-26.1	-34.2	-43.5	-55.3	6.09-	-68.4	-69.3	-71.2	-68.4	-63.5	-63.2	0.09-	-55.3	-52.2	-52.6	-48.2	-47.2	-41.9	-41.0
TSL MOT	GEOPOTENT 1 AL		FEET	5022.	6209	8489.	10372.	12365.	14490.	16767.	19223.	21884.	24807.	28030.	31628.	35732.	40530	43289.	46380.	49962	54307	58664.	61323.	04428.	68135	72763.	78846.	82712.	87488.	93720.	102608.	1105501
3y89.00 FEE 1000 HRS	PRESSURE G		MILLIBARS	850·0	800.0	750.0	200.0	₽•059	600.0	550.0	200.0	450.0	#00°0	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0	80.0	70.0	E-09	20.0	<b>0.0</b>	30.0	25.0	20.0	15.0	10.0	0.
STATION ALTITUDE 3989.00 FEET SE 2 OCT. B1 1000 HRS MOT ASCENSION NO. U28																									•							

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3951-80 FEET 1-SL 2 UCT - 81 ASCENSION 40 - 35 811 1-85 3D	3951-40 FEET   0811-145 HD	اد ا	AP.	2750050035 APACHE TABLE 9		0E0DETIC COORPI. 32.62700 LAT 106.39352 LOI
	Phessure	E. GFONETICE	TEMP(	TEMPLRATURE IR DEMOCRAL	KEL. HUM.	
	·-ILLIBAR	"ILLIBARS HIST FEET	DEGREES	CENTICHAL		
	u82.7	3751.4	17.5	15.0	9,519	
	0.050	5010.4	15.5	12.6	6.4.	
	807.4	6441.7	13.1	12.5	3	
	714.8	9794.6	4.1	200	0.5	
	200.0	10364,3	7.4	1.0	5.0	
	652.6	12256.0	4.1	9	2	
	0.660	14098.1	.7	9	0.5%	
	558.8	16368.7	6.	-1.0	2	
	518.4	18334.0	-3.5	-3.0	0.66	
	516.1	18449.2	-y-5	-6.3	0.66	
	500.0	19262.R	-8.3	-12.4	72.0	
	464.2	21149.6	-11.5	-18.5	0.95	
	434.6	22A04.8	-14.0	-16.5	81.0	
	454.8	23373.5	-15.5	-17.	86.0	
	417.5	23803.0	-17.0	-30.0	31.0	
	412.6	24093.8	-18.2	-39.0	14.0	
	0.00+	24852.5	-20.5	-40.5	15.0	
	356.4	27635.1	-25.6	かったまし	16.0	
	2000	31673.4	-34.5	7.84	23.0	
	7.4.4	33709.0	-34.6	140.0	45.0	
	264.7	34519.9	9.64-	20.04	9. <del>9</del>	
	250.0	35793.2	-43.7		1	
	200.0	40617.6	-54.5			
	150.0	46508.7	-67.6			
	129∙8	49395.0	-65.5			
	111.6	52353.9	-70.5			
	100.0	54530.2	-72.0			
	70.0	61587.4	-65.0			
	50.0	68478.7	-57.9			
	30.0	79264.0	-52.3			
	0.ns	67966.3	151.1			
	12.7	97770.2	-50.1			

DLTIC COOKUINATES 32.62700 LAT DEG 106.39352 LOH DEG	INDEX OF REFIRACTION	1.000310	0120001	0.000001	1.000294	1.000291	1.000287	1.000284	1.000278	1.000272	1.000267	1.000261	1.000256	1.000251	1.000245	1.000238	1.000234	1.000229	1.000224	1.000219	1.000214	1.000210	1.000205	1020001	1.000194	1.000190	1.000167	1.000183	1.004179	1.000175	1.000169	1.000162	1.000157	1.000153	1.000150	1.000146	1.000144	1.000142	1.000141	1.000138
.,Evul. 11C .32.62 106.39	IA SPEEU KNOTS	1.9	0	, v	3	11.4	13.3	14.8	15.4	15.8	15.4	15.7	16.7	16.8	16.6	15.1	14.5	15.6	17.0	18.4	18.8	19.6	7.77	2.40	י ה ה ה	6	26.6	26.8	26.9	26.5	25.5	24.1	22.2	20.8	20.5	20.4	21.1	21.9	23.0	54.6
	"INU DAÍA DIMFCTIUN S DEGREES(IN) K	160.0	177.5	167.1	104.4	163.2	167.4	172.1	170.7	101.2	160.0	192.2	197.4	202.0	2002	50102	177.0	190.9	188.4	+•8a ₹	187.5	102.4	- J	8.5.5	165.6	167-1	188.7	190.5	191.6	192.5	192.3	7,067	185.0	173.5	1/1.5	167.7	167.8	1,2.5	7.67	139.6
, 1 . 3 . 3	SI EEU OF SOUND KNOTS	éfiben	464.15	0.000 0.000 0.000	1.4400	<b>663.1</b>	1062.2	601.3	6.099	659.8	1.659	_	657.6		_	10.450	652.9	_	_	9.619	_	_	_		2.040		8.540	643.0	642.2	_		_	_	_	_	_	_		530	0.7.0
UPPLR AIK CI 275n0sunas APACHE TABLE 10	DEUSITY S GM/CUBIC METER	1050.	1001	10.34.0	1019.5	1004 • 1	989.1	974.1	956.7	943.0	9211.7	914.0	899.6	845.4	872.6	A51.0	846.0	835.	822.5	810.1	797.9	785.4	0.477	100 × 100 ×	734.4	721.6	2.604	697.6	68b.1	6-1/29	679.7	4.199	651.4	640.69	63n•5	620.3	61.9.0	9•(-j.g	589.5	5 <sup>H</sup> 0•0
~ -	PEL.HIM. PEPCENT	85.0	0.44	84.0	83.0	A7.4	92.0	96.0	95.8	95.7	95.5	95.4	95.2	95.1	95.0	95.5	96.3	4.76	98•5	0.66	99.0	0.66	0.66	0.00	0.66	0.66	0.66	0.66	0.66	0.66	97.3	80.7	0.07	65.7	61.5	57.3	61.3	5. Kg	± 9.0	82.7
1 . St	TEMPERATUPE R DEWPOINT LES CEUTIGRADE	15.0	# n t	7.67	12.7	12.6	12.6	12.4	11.8	11.2	•	•	•	8.7	1:1	٠ د د	2•B	2•0	F) (	3.5	5.0	1.1	•		7 7	8	-1.2	-1.9	-2.5	-3.2	-6.7	-10.3	-13.2	-14.7	-16.3	0.81-	-17.9	-17.3	-16.8	-16.8
3,51,40 FEET . 0815 HRS MO	TEMP ATP DECKLES	17.5	17.4		in in	14.7	13.8	13.0	12.4	11.8	11.2	10.6	10.0	ۍ د .	ຮຸເ	? .	6.3	# · ·		9.5	2.7	æ c	•	•		9•1	-1.1	-1.7	-2.4	-3.1	-6-3	9-1-	-8-7	9.6-	10.4	-11.5	-12.0	-12.8	-13.5	-14.5
ار گار 35	PRESSUPL AILLIDARS	882.7	841.2	965	850.3	835.2	820.3	805.7	791.2	770.9	763.0	747.2	735.	722.5	****	0.060	083.	671.1	658.8	9.000	0.4.0	057.0	7.110	5000	577.5	560.7	550.0	540.5	532.2	520.1	1.016	50.01	#*06#	492.7	470.2	460.9	457.8	/ • O + +	0.604	431.2
ST., T104 ALTITUL 2 OCT - R1 ASCENSION 110.	GEUNETRIC ALTITUDE NSL FEET	3951.0		0 0 0 C 4	2.0000	5500.0	C•0009	0.00Sa	7000.0	7'500.n	90000	0.50cs	9000°C	9500.	10000	10500.0	11000.0	11500-	12000.0	12500.0	15000	13500-0	0.00047	0 - 00 0 5 t	1550000	16000-0	16590.0	17000.n	17500.0	100001	18507.0	19000.0	19500.0	7000n7	<0500×0	<100077	21500.0	22000-6	22500.0	<500052

.EODETIC COCCUMATES 32.62700 LAI DEG 106.39352 LOI DEG		INDEX	OF REFRACT1014	1.000134	1.000128	1.000125	1.000123	1.000121	1.004119			1.000113				1.000106	1.000104	1.000102	1.000100	1.000099	1.000097	1.000095							1.009084	1.00000		1.000078			1.000074		1.000071	1.000070	1.000069	1.000067	1.000066	1.000065
,£00c.T <sub>1</sub>		¥.	SPEED ANOTS	26.1	27.9	28.6	29.0	29.0	28.8	29.3	31.3	32.4	33.4	32.9	31.9	29.9	28.6	27.9	30.0	33.5	35.5	37.1	37.7	41.0	45.9	3 · 3 · 3	50.0	51.2	200	10.40	4	55.4	56.8	57.0	56.8	57.3	1.00	66.2	73.6	77.7	74.3	<b>8.</b> 69
		WIND DATA	DIRECTION DEGREES(TN)	199.5	207.6	212.3	216.5	220.5	224.7	227.4	257.2	225.5	26.3.4	5-0-5	218.7	217.1	216.5	210.7	222.7	259.5	233.0	234.7	231.6	250.1	229.3	250.6	252.7	254.0	2.52	232.5	241.5	231.4	231.3	232.7	234.9	236.7	237.6	237.1	230.5	230.8	20%	241.4
035 035	-	Spt. OF	SOUND NN01S	625-1	622.6	050.0	619.0	617.8	610.7	615.6	614.4	615.3	612.0	610.6	609.3	60709	600.5	1.509	6n3.7	602.3	<b>CUI-0</b>	599•B	296.5	597.2	595•B	294.5	592.6	0.765	0.620	10000	5,000	583.7	582.3	540.8	579.3	577.9	570.4	574.9	57.7.5	572.0	570.5	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5
UPPER AIR ULTA 2750050035 APACHE TABLE 10 CON'T	APEE 10 C		GM/CUBIC METER	571.4	564.3	557.1	544.7	539.4	530.2	521.3	512.5	503.H	495.3	487.1	474.9	471.0	463.1	4554	447.5	† • O to †	432.H	425.3	417.B	410.5	403.5	396.4	390.0	365.4	7.00	169.	156.7	350.3	344.0	337.H	331.1	325.8	320.0	314.0	3000	302.1	290.3	230.7
, F	-	REL . HIM.	PERCENI	8.69	19.5	14.5	15.1	15.2	15.4	15.6	15.8	16.0	16.6	17.5	18.4	19.5	20-1	21.0	21.8	22.7	26.0	30.7	* · · · ·	0.00	39.3	36.1	22.44	4.04														:
T :ISL H Di		TEMPERATURE	UEWPOINT CENTIGRADE	-20-2	-35.5	-39.7	-40.5	-41.1	-41.8	4-24-	-43-1	-43.7	-44.2	1.44-	-45.2	-45.1	14.6.W	-46.8	4.64-	0.64	-47.7	-47.2	200	7.9h-	7.7.	/ · o + ·	D + 10 -	-63.5														
3,51.40 FEET (ISL 0815 HRS NDI 5		TEMP.	ATA DEGREES	6.51-	-17.8	-10.4	-20.8	-21.7	-22.6	-53.55	3.30	-52-	156.4	-27.5	-28.6	-59.7	-30.8	-31.9	-33.0	-34-1	-35.2	2005	V	2000	134.0	£			F - C	-100-	-47.5	-46.6	-49.B	6.05-	-52.0	-53.1	7.5.5	-55.4	-56.5	447.6	-58.7	5. A.S.
7 <sup>U</sup> De.		PRESJURE	HILLIDARS	452.6	414.2	405.8	397.6	389	361.4	373.6	365.9	1000	350.9	240.0	330.2	329.1	322.2	310.4	308.7	202.2	295.7	7.60	1000	6,012	27.0.3	70407	10407	247.5	247.0	230.4	231.0	225.7	220.6	215.5	210.6	200.8	201.1	196.3	191.6	186.4	187.	6.0/1
STATION ALTITUD 2 OCT. 61 ASCENSION NO.		GFOME TRIC	MSL FEET	6.35.90.9		•		•				•	28000·0		•			å	0.00010	0.00516	32000-0	36500-0		33500	Belletter C	0.0004	35,000.9		3550340	J7003.0				391100.0	34500.0	400007	******		å	•		£

\*\* A! LLAST ONE ASSUMED RILLTIVE WALL WALLE WAS USED IN THE INTELPOLATION.

JEODETIC COOKDIUATES 32.62700 LAT DEG 106.39352 LOH DEG	INUEX OF REFRACTION	1.000004	1.00006.9	1.000061	1.000060	1.600059	1.000058	1.000057	1.000055	1-000054	1.000051	1.000050	1.000048	1.000047	1.000046	1.000045		1.000043	1.000042	1.000041	1.000040	1.000039	1.000038	1.000037	1.000036	CC0000.1	1:00001	1.00003	1.000031	1.000030	1.000029	1.000028	1.000024	1.000027	1.00n026	1.000026	1.000024
₀€00⊾T1 32. 106•	SPEEU KNOTS	63.2	63.7	66.2	68.9	71.0	71.2	69.2	60.0	10	50.7	45.1	39.6	36.5	34.5	33.5	32.6	26.05	36.0	10 m	33.8	31.9	28.8	25.2	21.5	9	11.0	100	8.5	8.1	8.5	0.6	6.1	10.2	101	9.07	10.1
	LIND DATA DIRECTION SI	243.9	243.5	242.3	242.3	545.4	242.9	244.1	24042	248.6	248.1	240.5	242.0	230.8	230.9	24/.0	200	25.75	22001	6.626	230.9	230.7	229.5	220.4	2510	21101	2000	200.6	197.9	195.3	7.461	192.8	190°E	7.991	7	2007	150.0
υ, τλ 35 304°T	SPEEL OF SOUND KNOTS	567.6	560.1						0.VC3								550.6								0.400											56.2.ts	
UPPER AIK D. IA 2750050005 APACHE TABLE 10 CON'T	DFNSITY GM/CUBIC HETER	285.2	279.6	274.5	269.5	264.2	259.2	C + 102	2	234.7	220.5	222.4	210.R	212.3	207.8	203.5	199.2	190.1	180.5	101.4	177.6	175.4	166.7	104.1	1.50 to	151	140.0	142.4	139.0	135.2	131.5	127.9	174.4	121.0		114.0	104.6
5 F	REL . MM. PERCENT																																				
3951-40 FEET 1.5L 0815 1.RS M.DT 5	TEMPERATURE AIR DEWPOINT DECKLES CENTICKADE	F60.9	-6.2.0	-63.1	-64.2	# <del>.</del> 59	-66.5	0.14	66.9	-66.5	-56.2	<b>-65.8</b>	-45.7	166.5		7.0¢	6.69-	-70.6	-70.9	-71-3	-71.6	-72.0	271.0	0.1/-	-20-0	9.69-	-69-1	-k8.6	-68.1	9.7.0	-6.7-1	0.00	1.00	60.6	1000	1000	-0.00 -0.00
TUDE.	PRESSUR <sub>E</sub> HILLIBARS	173.7	169.5	165.5	161.5	157.6	155.8	4000	14/-7	139.2	130.8	132.4	153.	125.4	110.7	7 7	113.8	1111.0	108.2	100.4	102.3	7.001	2016	0.00 0.00	90.5	80.3	80.1	85.9	81.8	5.	200	0.5		7.07	40.4	0.00	60.3
STATION ALTITUDE 2 OCT - 1,1 ASCENSION 110.	GEUNETRIC ALTITULE MSL FEET	435,00•6	J•00U##	44500.0	45000.0	J-005ch	0.0000		47500-0	49000.0	J-0058+	0.0006+	49500.0	200000	5.000.0	0.00014	52000.0	54500.0	53000.0	ე-ბენი	54000.0	0.000.0	\$ 000cc	56000.0	D.0650¢	3.00070	5.750n·0	58000.n	53500.0	J-00050	0.00000		0.000 c	61500-0		0.5500.0	J•00050

EODLT.C COORUINATES 32.62700 LAT DEG 106.39352 LOW UEG	INDEX OF REFRACTION	1.000024	1.000023	1.000022	1.000022	1.000021	1.000021	1.000020	1.000020	1.000019	1.000018	1.000018	1.000018	1.00001	1.900017	1.000016	1.000016	1.000015	1.000015	1.000015	1.000014	1.000014	1.000014	1.000013	1.000013	1.000013	1.000012	1.000012	1.000012	1.090012	1.000011	1.000011	1.000011	1.400010	1.000010	1.000010	1.000010	1.000009	1.000000	1.000009	1.000009	
,EODLT, 32. 106.	SPEEU NAOTS	10.0	0.6	5.1	2.6	2,3	3.7	3.6	3.8	4.1	4-1	3.3	2.8	2.1	1.7	3.5	ນ ຄ	6.5	7.5	4.1	3.3	6•9	10.9	13.4	13.7	13.7	11.0	8.2	3.8	3 °	n n	er :	a (	٠ ا		o.	ۍ د د	6.7	6.3	6.1	6.2	
	AINU DATA DIRECTIO S DEGREES(IN) N	137.9	123.7	107.4	0.49	350.9	327.7	339.0	347.9	340.8	348.6	2.5	19.7	18.0	20.0	42.0	ດ. ສາ ເຄື	1.8.	6.84	71.4	747.9	173.7	1/8.4	180.3	181.3	182.1	190.	1/8.5	126.6	50,5	27.6	7.67	79.5	7.10	0.6c	~ · · · ·	) • Sc.	3°	) · [	3°68	1,000	
د ۲۸ من د ۲	SPLED OF SOUND ANOIS	564.7	505.4	560.1				564.9	569.5	570.2	570.9	9.176				573.0	573.3	573.6	574.0									-											573.	.n	573.0	
UPPLR AIR LTA 2750050035 APACHE TABLE 10 CON'1	DENSITY GM/CUBIC NETER	105.7	102.4	100.2	97.5	6.4.6	95.4	0.n9	87.0	A5.3	85.0	80.0	78.8	76.9	75.0	73.2	71.4	9.69	61.9	60.2	2.79	65.0	61.5	60.02	36.5	57.1	7.55	54.3	53.0	21.7	7.0°	2.64	7 ·	9 ( 9 (	45.7	3		42.0	C • T •	40.0	59.7	
- <b>-</b>	REL HUM. PERCENT																																									
3951.40 FEFT 45L 0815 HRS 8.0	TEMPERATURE AIR DEWPOINT DESKEES CENTIGRADE	-63.0	-62.5	-62.0	-61.5	-41.0	S+04-	6.63-	-89·4	-58.3	-58•4	-57.9	-57.6	-57.4	-57.1	-56+9	-56.6	5.00.	-56.1	-55.8	-55.6	-55.3	-55.0	154.8	-54-5	n - #11 -	5 + # 5   1   1   1   1   1   1   1   1   1	-53-7	136.5 136.5	-53.2	-55.0	1.25-1 1.25-1	# 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ر در از	2.54.	152.1	1+2+1	1.00°	-21·3	6.11.0	*41.8	
35 35	PRESSURE HILLIBARS	6.09	62.2	60.7	59.5	57.8	50.4	55.1	50.7	2.75	51.2	44.0	8.84 14.83	47.6	4c•5	3°03	# # # # # # # # # # # # # # # # # # #	5 • C #	42.5	41.3	÷ • • • • • • • • • • • • • • • • • • •	さっかり	38.5	3/•6	) • o	900	35.1	34.5	30.0	36.5	31.9	7.16	200	23.0	7.0	20.7	21.1	27.0	Z0.4	22.8	25.5	
STATION ALITUDE ? UCT. el ASCEISTUI: 110.	GFUNITRIC ALTITUE MSL FEET	0.3500+1)	0.00040	045,00	กริกขึ้น ดั	0.5500.0	0.00000	0.00500	0.60070	0.00570	0.000000	0.00c;80	0.0006a	0.9500.0	700000	70500.9	71000.0	71590.0	72000-0	72500.0	1.5000.0	7.5500.0	74000-0	74500.0	0.00007	0.00447	0.00007	70500.0	J.100.//	77500.0	0.0000/	0.0058/	0000K	0.00000	r • Gnunn	80500	0.001¢	31500.0	W.C	82500.0	0.000ca	

(.EODETIC COOKUINATES 32.62700 LAI DEG 106.39352 LOII DEG	INDEX ED OF ITS REFRACTION	5.1 1.000009 4.1 1.000008 3.0 1.000008		., 1.000008 2.1 1.000007 3.4 1.000007		2.5 1.000007 3.3 1.000007 4.3 1.000006			2.3 1.000006 4.0 1.000005 5.8 1.000005		1.000005 1.000005 1.000005 1.000004
, , , , , , , , , , , , , , , , , , ,	WINU DATA DIRECTIO SPEED 1,EGREES(TN) KNOTS	111.1 122.9 132.9	138.3	76.3	97.4	160.5 203.0 215.6	222.5 222.5 222.5	222.5 201.6 113.1	73.8 69.1	g • go	
۵۶ ع5 0N'T	SPEED OF SOUND KNOTS	579•7 579•8 579•8	_, _,	540.4 540.4		580•6 580•7 580•7	580•8 580•9 560•9	-			581.0 581.7 581.7 581.8
UPPER AIR DATA 2750050035 APACHE TABLE 10 CON'T	DENSITY GN/CURIC METER	36.7 37.8 37.0	36 30 40 40 40 40 40 40 40 40 40 40 40 40 40	33.6 32.6	32.1	20.th	28.5 27.9 27.2	266.5 26.0 26.0 26.0	24.8 25.42	22.1 22.6	21.5 21.0 20.6 20.6
	REL.HIM. PERCENT	-									
3951-40 FEET .SL 0815 HRS MDT 5	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-51.7 -51.6 -51.6	-51.5 -51.4 -61.4	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	-51.2 -51.1	-51.0 -50.9	- 50.9 - 50.8 - 50.8	-50.7 -50.7 -50.6		# # P #	150.2 150.2 150.1
۲ <sup>۵</sup> ۵۰ ع	PRESSURL 41LL I JAR'S	24.6 24.1 24.5	22.4	20.0	, o ,	14.1	17.3	16.6 16.6 15.8	1	3 - C C - C - C - C - C - C - C - C - C	
STATION ALIITUD 2 OCT. 81 ASCENSION NO.	GEUMETRIC ALTITUDE 45L FEET	6.5500-0 64000-0 04500-0	35000.0 85500.0 85000.0	85500.0	84700.0 84700.0	0.00063 0.00063	90808 90806 91806 91806	91560•0 92000•0 92500•0	93500.0	95000.0	95500.0 97600.0 97500.0

, E O DETIC COOKUINATES 32, 62700 LAT DEG 106, 39352 LON DEG	DAIA			H • E	15.0	15.7	15.5	18.0	24.2	26.7	23.1	21.8	29.0	3,5.3	34•1	52.2	61.3	64.8	69.3	30.0	31.9	0.3	10.7	0.7	するの	0.7	5•2	5+9	1.8	6.3
	AIND DAIA	DIRECTION	DEGREES (TN)	164.4	173.9	191.9	202.9	188.4	184.8	169.5	187.7	171.7	215.2	223.2	230.5	233.6	237.5	243.2	244.0	235.4	230-7	195.7	183.7	93.6	7.4	161.4	28.0	105-1	135.2	68.3
EvELS 35	ווארר.ווחאי			83.	40.	55.	95.	•66	<b>66</b>	•'nó	72.	•63	15.	17.	23.															
MANDATORY LEVELS 2750050035 APACHE TABLE 11	TEMPERATURE	DEWPOILT	DEGREES CENTIGRADE	12.6	12.2	10.01	2.9	3.8	٠3	-1.6	-12.4	-17.4	-4J.3	-44.3	-48.2															
<i>≩</i> ⊢	TEMP	AIR	DEGREES (	15.5	12.8	10.7	7.4	3.9	<b>.</b>	-1-4	-8-3	-12.7	-20.5	-26.5	-34.5	143.7	-54.5	-60.6	-67.6	-66.R	-72.0	-67.6	-65.0	-61.7	-57.0	S S	ं <b>हैं</b> •	-51.4	-51.1	-50.5
15.F.	OPOTENTIAL		FEET	5007.	6692.	8470.	10354.	12350.	14475.	16764.	19236.	21898.	24811.	28016.	31610.	55715.	40519.	43286.	46383.	50004	54362.	,38722.	61377.	.48440	v8222.	72864.	78926.	8281)A.	H7555.	93702.
E 3951-40 FEET HSL 085 HRS M D 35	PRESSURE GEOPOTENTIAL		MILLIRAKS	P50.0	6.00%	750.0	J.007	0.053	600.0	550.0	500°n	450·0	400°	350.0	300.0	250.n	0.005	175.0	150.0	125.0	100.0	80.0	70.0	0.09	50°U	40.0	30.0	55.0	20.0	15.0
STATION ALIITUDE 2 OCT. L1 ASLEMSION NO.																														

\*\* AT LLAST ONE ASSUMED RELATIVE MINIDITY VALUE MAS USER IN THE INTERPOLATION.

SIGNIFICANT LEVEL DATA	TOTICS OF TOTICS OF THE PARTY O	TABLE 12
1515		TAB

574104 ALITUDE 4.51.00 FFET 15L 2 0CT 41 ... 0850 5535 0DT ASCENSION 40. 101

REC.HUM. PERCENT	86.0 88.0 88.0 88.0 88.0 88.0 88.0 88.0
TEMPERATUK IR DEMPO1HT REES CENTIGRADE	11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TEMPE AIR DFGREES	
L. GEONETAIC ALTITUDE S MSL FEET	4051.0 5611.4 7474.1 8119.3 8177.0 9477.0 9471.9 9471.9 10500.4 11500.4 11500.4 11500.4 11500.4 11500.4 11500.4 11500.0 11500.
PKESSUR <sub>L</sub> MILLIBAR <sub>S</sub>	8730.0 7750.0 7750.0 7750.0 7121.0 7121.0 700.0 850.0

ALLER JALLER

2 0CT 61 08 50 185 MD1 ASTERNATION ACTION ACTION ASSENTED ASSENTED

TABLE 12 CON'T

TEMPERATURE AIR DEMPOINT DEGREES CENTIGRADE	
TEI AIR DF GREI	140.01.
PRESSURE GROWN THIS ALTITUDE WILLTHARS WIL FELT	

71.7 61132.2 -63.3
70.0 61619.2 -63.3
61.9 64121.2 -62.3
59.1 65069.4 -60.5
50.0 68525.9 -50.5
44.3 71619.9 -54.4
33.4 77061.8 -51.8
30.0 79359.5 -52.6
20.0 86085.1 -49.6

DETIC COOKULIATES 33-16712 LAT DEG 106-49511 LOJ DEG	INULX OF REFRACTION	1.000311	1.000305	1.000300	1.000293	1.000287	1.600281	1.000275	1.000267	1.0004	1 - 2000 - 1	1.000242	1.000236	1.000233	1.000228	1.000225	1.000221	1.000216	1.000211	1.000206	1.000202	1.000197	1.000194	1.000169	C01000-1	1.000178	1.000174	1.000170	1.000166	1.000163	1.000159	1.000156	1.000153	1.000148	1.000143	1.000141	1.000139	1.000156	1.000131
.,EUDETIC 33.16 106.49	JA SPEEU KNOTS	•	3.2	6.9	10.5	12.4	11.8	11.7	7.7	1.0.0 7.0.0		15.2	16.1	17.1	17.9	18.7	19.5	20.6	21.7	23.0	24.2	24.7	25.0	25.0	0.10	22.2	22.2	23.4	25.3	26.2	27.0	30.0	33.2	36.6	40.1	39.0	36.3	53.7	26.1
	WIND DATA DIRECTIO, S (JEGREES <sup>(T</sup> I) K	•	109.2	7.691	169.5	1.891	107.4		7.65	3.5	196.4	190.4	195.7	191.9	191.5	190.5	149.1	169.0	149.5	189.5	1,001	7.061	0.061	0.04	189.3	187.6	165.1	163.5	162.0	183.5	104·to	101.0	1,9.2	1//•	6.6/1	1/5.5	1,504	7:01	١٠/٠١
A	SPELU OF SOUND NHOTS	9.040	665.5	2.609	UP3.1	1.799	1.104	_	6.150	4 6 4 4 6		_	655.8	8.000	652.1	655.5	_	449.5		64049	645.7	2.2.2	= · + · · ·	**V**	7.440	639.9	639.2	637.8	637.1	_	654.9	633.2	0.21.7	6,11.1	6.50 • 3	ბ2ი•5	10.7.0	620.V	4,55.4
UPPER AJR DELL 2750050161 JALLEN	DFNSITT SOM/CUBIC	1040+5	1035.5	1012.2	1004.	984.5	97/11-7	0.106	7,60	300	902.0	8A7.0	A70.1	85,4 4	846.7	831.t	814.3	808.6	797.1	785-0	775.1	701.4	**************************************	1976	71'201	702.1	₩•069	6Ap.	6666.5	6.57.3	647.4	63.6.	620.0	617.6	1.209	59000	5.00	2.5.5	· 646
	Percent	86.0	48.3	6.06	91.4	91.8	92.5	04.50	0.50	4.66	89.1	82.4	78.3	94.0	84.0	86.B	<b>9.68</b>	91.2	91.9	91.6	91.5	91.1	0.16	0.10	91.0	91.0	90.5	84.2	86.0	83.8	94.0	A5.6	85.2	71.9	59.6	61.2	65.55	5 .	41.5
т. sı. <sup>к</sup> р	EMPEKATURE DEWPOINT ES CENTIGRADE	15.1	14.6	1,4.0	13.2	12.4	11.7	6.0	. A.		7.2	5.8	5.3	4.7		·	က က	2.5	1.5		٥ <b>.</b>	c.[·	1.7		-5-1	5.5-	<b>-6.1</b>	P-7-	F. C.	F. 1	-10.3	**!!-	-12.	1.51-	-13·U	1001-	-14.7	1-17-	-25.2
4.51.00 FEET   0g5n HRS KiDi	TEMP AIR DEGREES	17.5	10.5	15.4	14.6	13.8	7.00	300	-7-3	<b>.</b>	8•9	9•6	ວ• ສ	7.2	6•3		5•1	٥ • •	, ,	165	•	7 2		1.7.	9.5-	1.4-	<b>-4.7</b>	₽.S•@	+ O-	0./-	T :	2.60		7 · 1 · ·	-11.	7.51-	-15.9		9.01-
7 <sup>U</sup> DL • 1 <sup>1</sup> 2	PRESSOURE MILLIBARS	873.6	865.6	850.3	335.2	820.2	701.2	77.00	704.4	740.1	734.2	720.9	707.8	6.469	584.1	0.440	657.5	7.040	7.000	649.7	5000	50.0	570.0	562.1	554.4	54.0.8	535.4	257.5	513.2	2020	490.0		D # 1 / 2	001	200	Z*/ th:	0.000	1000	1.124
STATION ALITUDE 2 OCT - 1 ASELISION NO. B	OEOSETRIC ALTITUDE SSL FELT	4051.0	4500.0	6-6095	0.000	6.0000	7.000Z	7.00.0	81100.0	8500.0	9nn0•n	9500.0	10000	105,00	•	11509.9	6.00021	1.5000	U-0011	0.00011	0 00 141	0.00004T	15:00:01	10000	10500.4	1.000T	17500.0	18000	18500.0	0.0004	•	_	1000°	_	•	•	Ú-00077		6.000

LEGUETIC COOKUINATES 33.16712 LAF DEG 106.49511 LOA DEG	INULX OF REFRACTION	1.000127	1.100125	1.000122	1.000120	1.000118	1.000116	1.000114	1.000112	1.000110	1.000109	1.000107	1.000105	1-400103	1.000102	001000-1	950000-1	140000·1	260000 · 1		1 • 000000	1.000088	1.900087	1.000085	1.900084		1.000001	6/0600-1	9/0000-1	1.000075	1.00004	1.000072	1.000071	1.300070	1.00,0068	1.100067	1.000066	1.000065	1.000064
.EGUET10 53.1 106.0	SPEEU RNOTS	18.0	18.5	22.7	27.9	29.5	31.1	31.4	31.6	32.3	33.1	4.55	33.6	0.00	0.00	2000	20.0	0.85	200	46.1	47.6	49.0	49.7	49.7	48.6	0.83	48.5	0.0	01.60	55.1	56.3	57.6	58.8	0.00	61.1	62.2	63.3	64.5	9•69
	HATA DATA DIRECTION S	190.9	213.2	544.1	221.t	219•0	210.0	210.1	215.7	215.9	2.01.5	210.9	21/•0	217.	210.9	2.72	2112	240.0	2/200	249.4	231.5	233.3	233.7	233.6	2.55.5	232.1	251.9	C.T.C.Z	4000	2505.5	230.1	26.90	22.3.5	230.1	231.1	252.1	255.1	7 · hc ?	1٠5٢٦
U. FA 161 CON'T	Sitte OF Sobiati NAO ES	6-629	622.5	7.000	619.3	617.4	010.0	615.2	513.B	012.3	010	C+6.130	604.1	2000	603.3	0.00	9.700	0-100	0.77	7.000	5000	593.4	594.5	997.0	509.6	5.00c	5/10-#	******	7.000	196			570.0	1.07.0	273.4	571.0	4.6.70	5000	56.7-1)
HPPLP AIN W.TM 2750030101 JALLEN TABLE 13 CON'1	JENSITY SM/CUBIC METER	561.5	557.0	543.1	534.6	525.9	517.3	503.8	50	かったかか	7.4.5	# 10° th	408.7	461.1	403.65	2.01	1.60.	4.51.6	424.1	4.00s	402.6	395.7	388.9	382.2	375.5	368.7	362.0	3000	10 F	4.2.5	1.00E	324.6	313.7	315.9	307.5	302+11	29000	2.1.5	285.4
-	REL.HIM. C	28.0	19.5	15.2	15.6	16.1	16.5	17.0	17.4	17.8	13.3	19.7	19.2	19.6	20.0	0.00	20.5	*0.6	4.0.1	11.444	8.0*	6.3**	3.7**	1.2**															
1 ,SL 11 <b>(81</b>	TEMPEMATURE AIM DEWROINF ARLES CENTIORADE	-16.9	- 55.7	-30.2	-37.9	-40.5	-41.2	-41.9	9.64-	* · ·	1.44-	C • + + + + + + + + + + + + + + + + + +	14.2.e.s	# · S) #	I • / •	) · · · · · · · · · · · · · · · · · · ·	- K-1	150.5		-57.5	4.09-	-63.8	-68•4	-76.9															
4,51,-ոմ Բ.Բ.Մ. ,5 085a nRS n <b>BT</b> 1	TEMP AIM DECHLES	8.01-	-18.1	-19.3	-20.5	-21.6	1.76-	£.56-	-25.	1.02-	5.7.	-50.4	23.5	-30.7	D - 1 - 1	6.20	7	135.2	172	38.5	-39.6	-40.8	-41.9	-45.0	F • # 5	2.01	0.00	* · · · ·		7.00-	-1,1.8	-52.3	0.45-	-45.2	-46.5	-57.13	1.9.1	**************************************	-61.º4
7UDL 4.3	PRESSURE HILLIOARS			390.1	367.9	•				とうだり	241.0	50400	321.0	321.0	7	105	**Tic	5 + 5 C	287.01	272.9	269.3	264.0	258.2	255	240.9	241.5	7.00X	5000 1000	220.0	214.9	210.9	2000	200.5	190.8	191.2	180.6	102.2	•	173.5
STAFFOU ALTITUDE 2 OCT & A ASSEUSION NO. 1	GEONETRIC ALITHUE HSL FEET	0.00042	24500+0	£5000.4	23599•0	J•00042	25500.0	7000.0	~ 75,00 · n	3.6005	23504.0	0.000,7	6.00°.62	0-00000	0.0000	0.00014	U-06576	0.0000c	330000	33500•0	34000-0	34530+0	0.00005	35504.0	0.000¢ć	36500.n	570000	0.000	Helphino.	0.0000	39500.0	40100	0.00,04	41000	41:00.0	42999.0	425,90.9	43000	45,79.0

\*\* AT LLAST ONE ASSUMIDITED, TIVE PHAIDTLY VALUE FAS USED IN THE TITELPOLATION.

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TLATER, TURE REL, HUM, DELISITY SI-LLU OF NIMU DATA  AIR DEWPOTINT PERCENT GYCHBIL SOUND LIRECTION SPEED  FAST STATES STATES SECTION SPEED  FAST STATES SECT	2 UCT O	0850 HRS 1:01	·	JALLEN TABLE 13 CON	CON'T		106.	J3.16712 LAT DEG 106.49511 LON DEG
PER, TURE RECENT GWCHBIL SURIND DIRECTION SPECENTISEALE SURIND DIRECTION SPECENTISEALE SURIND SERVES (111) KIND SERVES (111) SERV								
DEWPOINT PERCENT GN/CHBIL SUCHUD DIRECTION SPECIATIONAL CENTIFRALE NOTES (140) DIRECTION SPECIATION SPECIATION SPECIATION SPECIATION SPECIATION SPECIAL SECTION SPECIAL SECTIO	TE	MPERMTURE	KEL.HUM.	DELISITY	SELLU OF	MIND DA	ITA	INDEX
274.2 564.4 562.7 252.4 256.4 256.4 561.7 255.4 256.7 256.4 561.7 255.7 256.4 260.4 255.7 256.4 561.0 264.2 256.7 256.4 260.0 264.2 256.5 560.4 264.2 256.4 266.5 260.0 264.2 256.4 266.5 260.0 264.2 256.4 266.5 260.0 264.2 266.5 260.0 264.2 266.5 260.0 264.2 266.5 260.0 266.4 266.5 260.0 260.0 266.5 260.0 266.5 260.0	A 1R DEGREFS		PERCENT	GM/CHBIL NETER	STOWN	LIRECTION (JEGREES(IN)	SPEED KNOTS	OF REFKACTION
560.4 561.7	6.2.3			274.2	_	5.456	74.8	1.00006.9
560.4 561.7	£ 5.3 .			274.	_	930.4	75.0	1.000061
560.4 560.4 560.4 560.4 560.4 560.4 560.4 560.4 560.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 56	64.3			2613-13		232.1	74.4	1-00000
550.4 561.0 561.0 561.0 561.0 561.0 561.0 561.0 561.0 560.0	-65.2			263.4		235.6	70.6	1.000059
561.0 560.2 560.0 56	-66.2			250.2	-	240.0	65.8	1.000058
560.02 560.03 560.04 560.07 560.01 56	₽65•B			251.3	•	545.9	61.4	1.000056
559.7  561.5  560.0  561.7  560.0  56	-66.4			245.0	-	244.6	57.0	1.000055
560.6 561.3 561.3 561.4 560.4 560.4 560.4 560.4 558.4 558.4 558.4 558.4 558.4 559.7 559.7 559.6 559.6 559.6 559.6 560.4 560.7 561.2 561.1 561.2 56	-66.8			24U+2	-	2.44.2	53.1	1.000053
561.5 561.3 561.3 561.4 560.4 560.0 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 550.4 560.4 561.2 56	-66.1			233.5		241.7	49.7	1.000052
551.3 550.0	-65.4			227.0		236.7	47.2	1.000051
560.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 56	9•69-			221.6		556.6	45.8	1.000049
560.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 550.0 56	-65.9			216.4		554.9	3.55	1.000048
560.0 559.0 558.4 558.4 556.4 556.4 556.0 555.3 555.3 555.3 555.3 555.3 555.3 556.1 559.0 559.0 559.0 559.0 559.0 560.0 560.0 561.2 562.3 563.3 56	-66.2			211.4		242.8	42.2	1.000047
559.0 556.4 556.4 556.4 556.4 556.4 556.1 556.1 556.1 559.0 559.0 559.0 559.0 559.0 560.4 560.4 561.2 562.3 563.3 563.3 563.3 563.3 564.4 564.4 565.4 56	-66.5			200.5		220.5	40.0	1.000046
556.4 556.4 556.4 556.4 555.3 555.3 555.3 555.3 555.3 555.3 555.3 557.1 557.1 557.1 557.1 557.1 561.2 562.3	6.99-			201.7		54.5	39.3	
556.4 554.7 554.8 555.4 555.4 555.4 555.4 557.1 557.1 557.1 557.1 557.1 560.4 561.2 56	6.79-			197.7		228.6	38.8	1.00004
554.7 554.8 555.3 555.4 555.4 555.4 555.4 555.6 555.6 556.7 560.4 560.7 561.2 56	2.69			3-161		250.0	35.8	1.000043
555.4 555.4 555.4 555.4 555.4 557.1 557.1 557.1 557.1 557.1 557.1 560.4 560.7 561.2 56	7001			1.00.1		7.0%	21.5	7+0000-1
556.1 555.3 555.3 555.4 557.1 557.1 557.1 557.1 557.1 557.1 560.4 560.7 561.2 56	6.64-			180.		230.5	24.0	1.0001
555.3 229.2 555.4 227.1 557.1 226.4 557.1 226.4 559.0 214.2 559.0 214.2 560.4 212.9 560.7 212.9 561.2 179.5 561.2 179.5 561.2 179.5 564.0 167.5 564.0 167.5	4.69-			175.4		231.2	22.4	1.000039
555.4 227.1 555.4 555.0	0.04-			171.5		259.5	21.5	1.000038
555.1 557.1 557.1 559.0 559.0 559.6 560.4 560.1 561.2 561.2 561.2 561.2 561.2 174.2 564.4 167.5 564.4 167.5 564.4 167.5	6-69-			167.1		227.1	20.7	1.000037
557-1 559-0 559-0 559-0 559-0 559-0 560-1 560-1 560-1 561-2 561-2 561-2 561-3 564-4 564-4 565-4 565-4 565-4 565-4 565-4 565-4 565-6 565-6 565-6 565-6 565-6 565-6 565-6 565-6 565-6 565-6 565-6 565-6 565-6 565-6 565-6 565-6	-69.8 0			162.6	_	222.3	19.2	1.000036
559.6 559.6 559.6 560.1 560.1 560.7 561.2 561.2 174.2 561.3 174.2 564.4 167.5 564.4 167.5 564.4 167.5 564.4	168.7			157.9		216.4	17.7	
559.6 559.9 560.1 560.7 560.7 561.2 561.2 561.2 174.2 561.3 174.2 564.4 162.5 564.4 162.5 564.4 162.6	2019			152.4		7.47.7	181	
5599.9 560.1 560.4 560.7 561.2 561.2 179.5 561.2 170.5 564.4 162.5 564.4 162.6 565.4 162.6	1.00-1			T • E • E		214.5	2.61	1.000033
560.1 560.4 560.7 561.9 561.2 174.5 561.2 174.5 564.4 167.5 564.4 167.5 564.4 162.5 565.4 162.6	-(10 ·			145.0		C+17	19.7	
560.4 560.7 561.2 561.2 1790.7 561.2 179.5 56.4 564.4 167.5 564.4 162.5 564.4 162.6 565.4 131.1	166.4			Ç • ₹ 5 ₹ 7		213.9	17.3	1.000001
560.7 561.2 561.2 563.3 564.4 564.4 564.4 564.4 564.4 565.4	-66.2			137-7		212.9	5.5	
561.2 561.2 174.5 561.2 174.5 564.4 564.4 564.4 162.5 564.4 162.0 565.4	140.0			T o h o T		1.40%	0.11	
561.2 561.5 561.5 564.4 564.4 564.4 162.5 565.4 131.1	-65°			130.7	-	190.1	6.7	
56.1.5 56.1.3 170.5 564.4 167.5 564.4 162.5 564.4 162.5 565.4	60.0			127.3		C • 6 · [	) · ·	
563 170.5 564.4 167.5 564.6 163.0 564.8 162.6 565.4 162.5	-65.4			124-1	•	174.2	10、6	1.000028
564.4 167.5 564.0 163.5 564.0 162.0 505.1 162.5 565.4 131.1	10401			120.3		1,0.5	10.5	
564.0 103.0 564.0 102.0 500.1 162.0 565.4 131.1	-63.3			116.9		167.5	0.6	1.000026
564-8 162-8 565-1 162-5 565-4 131-1	-63-1			114.0	•	163.5	7.5	1.000025
565-4 131-1	-65.9			1111	•	162.8	1.0	1.000025
56554 1-JI	-62.7			10%		162.5	2.1	1.000024
	-62.5			105.6		1.1.1	•	1.000024

DETTC COOKDINATES 33.16712 LAT DEG 106.49511 LON DEG	INUEX OF REFRACTION	1.000023	66000001	6000001	1-0000-1	1.000021	1.000020	1.00000	.00001	1.000019	.0000		.00001	.00001	.00001	1.000016	.0000		.0000		.00001		.0000	1.000013	1.000013	1.000012	1.000012			1.000011	1.00001	1.960010	.0000	1.000010	1.000010	1.000010	1.000009	1.00000		1.000000
.,EODETIC 33,1 106.4	SPEED KNOTS	1.5	2		4	1.8	4.0	6.7	6.8	5.9	5.3	6.4	÷.	5.5	6.7	7.2	6.5	5.0	8.5	5.6	3.8	7.2	10.5	11.6	D #		1.2	2.7	2.6	2.1	1.7	1.2	•	9.	4.1	8.3	12.5	13.1	11.3	9.6
	WIND DAT	55.6	34.0	23.8	343.6	276.0	540.4	231.3	257.2	222.4	218.2	216.2	218.2	218.2	218.2	218.6	218.2	210.2	201.7	159.5	122.4	126.6	128.1	1.821	148.4	127.9	126.3	309.5	314.2	322.5	354.5	345.2	356.7	36.4	132.0	136.5	137.8	139.5	142.4	140.3
0,1A 161 COH'T	Sy EEU OF SOUND NNOTS	565.6	56.00 7	567.9	Shore to	564.8	569.2	569.6	570.0	570.4	570.7	571.2	571.6	572.0	572.4	572.9	576.0	576.5	570.8	577.1	577.4	577.7	578•0	578.3	578.6	570.4	579.6	579.4	579.2	579.0	578.7	578.6	570.8	579.1	579.3		-		550.2	580.4
UPPER AIR ULT 275030161 JALLEN TABLE 13 COH'	DFNSITY ( GM/CURIC METER	102.9	1001	97	94.7	92.3	0.00	87.7	85.5	4.56	81.3	79.2	71.6	75.3	73.4	71.5	1.69	4.76	8.59	2.49	62.6	61.1	29.6	28.2	8 - 9 - 14 14 - 15 15 - 15 15 - 15 15 - 15 15 - 15 15 15 15 15 15 15 15 15 15 15 15 15 1		52.7	51.5	50.4	£.64	48.2	47.1	0.9%	0 · + +	43.B	45.8	41.7	8.0.p	39.6	30.8
J -	PEL.HIM. PERCENT																																							
<sup>4</sup> 651•00 FEET 15L 0850 HRS MD	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-62.3	-61.6	-60.6	-60.3	-60.0	-59.7	1.0.4	-59.1	-18.8	-58.5	-58.2	6-12-	-57.6	-57.2	50.9	154.6	154.2	9.9°	-53.7	100°0	-53.2	156.0	-52·8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.00	-51.8	-52.0	-52.1	-52-3	-52.5	-52.6	-52.4	-52.2	-52.0	-51.9	-51.7	2011	-51.0	-£1.2
ե 4 <sub>6</sub> . 161	PRESSUR <sub>E</sub> hILLIHARS	66.3	8.09	59.3	57.9	50.5	55.1	50.8	52.5	51.3	50.1	6.02	1.1.4	9.0	n 4		;	å,	<b>:</b>	ė	5.40	0 t		200	,	10 m	34.5	32.7	32.0	31.2	30.5	27.8	29.1	26.5	21.8	27.5	26.5	20.0	<b>.</b> 1	÷
STATION ALTITUDI 2 UCT - B1 ASCENSION 110.	GFUMETRIC ALTITUDE MSL FEET	n.000%	0.4500.0	65000en	65509.n	0.00099	00200	67000.0	0.00570	68nnn.	0.00589	0.00069	69500.0	200002	7.000.0	0.0001/	71500.0	72000.0	72500.0	7.5000.0	7.5500.0	0.000%	74500.6	0.00007	75000.0	76500•0	77000.0	77500.9	78r00.n	78500.0	79000.0	19500.0	0.0000	30200·0	61009.n	41500.0	32000.0	•	43000 P	435nn.p

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.EODETIC COOKDINATES 33.16712 LAT DEG 106.49511 LO. DEG																												
,EODET <sub>1</sub> 33. 106•	₹	Da SPEED TN) KNOTS	6	11.6	15.3	16.7	20.1	24.6	22.4	20.4	39.9	20.1	32.3	30.2	2.64	58.9	67.7	62.0	41.8	21.6	12.2	4.7	2.7		2.1	**	10.5	\$ · .7
	7187	DIRECTION DEGREES(TN)	169.2	107.5	196.5	192.3	186.9	190.2	149.1	163.9	175.5	222.9	215.9	217.5	233.0	229.5	233.5	242.6	242.5	229.5	206.0	166.8	33.6	218.2	139.0	358.8	144.0	235.3
6.vlls 64	ict. Hun.	PERCENT.	91.	20	956	1140	-06	91.	•16	95.	59.	15.	18•	21.														
MANGATONY LL.VLLS 275n030161 JALLEN TABLE 14	TEMPLRATURE	AIR DEUPOINI NEGREFS CENTIGRADE	13.9	11.4	-2.0	5.1	2•8	-1.5	-5.3	9.6-	-19.5	-38.9	2.8th	7.84										•				
νν TA	TEMPE	AIK NEGKEFS C	15.4	12.6	-1.7	7.6	ر. د	2	0.4	-7.2	-13.0	-13.8	-26.0	5.46-	-43.5	-54.1	-61.0	-65.7	-66.3	-70.0	-66.0	-63.3	-61.1	-56.5	-53.6	-52.6	-51,3	9.64-
. S. (0.	OFOTENTIA	PEET	5000.	6692.	8419.	10291	12288.	14412.	16645.	19143.	21810.	24729.	.7947.	51547.	55652.	40463.	43227.	46325.	49955	54337	58741	.1411.	C4530.	u8272.	72925.	19054.	62900.	:7676•
STATION ALIITUUL 4ASIAAO FEET SL 2 UCT. DI ASCENSION 140. IBI	PRESSURE GEOLOTELTIAL	MILLIMAKS	£50.0	F00.0	750.n	700·u	656.0	0•009 •••••••••••••••••••••••••••••••••	550.n	0.005	450.0	U•00t	G.000	U-00E	0.052	0.00¢	175.0	150.9	125.0	100.1	0.00	U-07	F-09	50.0	G.04	30.0	85.A	20.0

44 AT LEAST UNE ASSUMED RELATIVE HIMIDITY VALUE WAS USEN IN THE INTERPOLATION.

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